National Research Council
Postdoctoral Research Associateships

At the Ceramics Division, Materials Science and Engineering Laboratories of the National Institute of Standards and Technology (NIST)

NIST is one of the premier research laboratories in the world. Ceramics research programs include experimental and theoretical studies of:

Nanometrology:

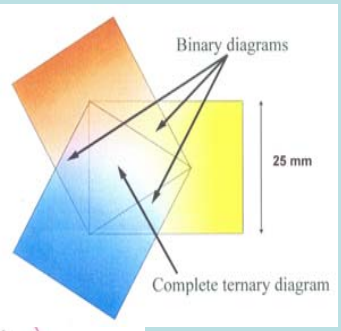
- Nanomechanics, nanotribology, mechanical metrology for small-scale structures
- Thermochemical metrology of interfacial interactions
- Chemistry and structure of nanomaterials, Nanoparticles in cancer research

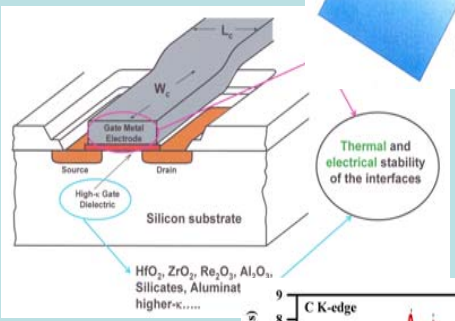
Materials for Electronics:

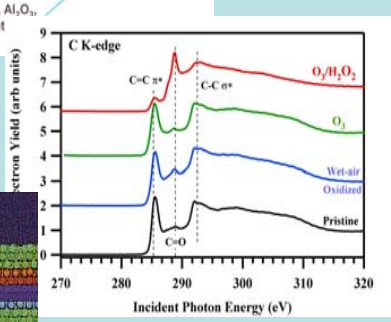
- Advanced materials for Si CMOS (e.g. high-k gate dielectrics, strained silicon)
- Advanced materials for energy applications (e.g., thermoelectrics, hydrogen-storage materials)
- Combinatorial materials science, computational materials science
- Multifunctional electronic materials, optoelectronic materials

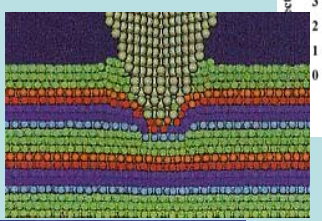
Cross-cutting Metrology, Standards and Data Needs:

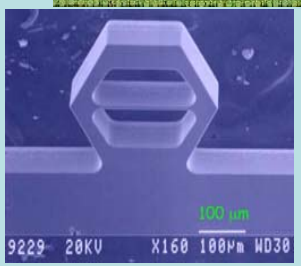
- X-ray diffraction metrology and standards
- Synchrotron-based spectroscopy, diffraction and imaging methods
- Phase equilibria, crystal chemistry, and crystallographic data
- Materials data evaluation and interoperability of materials databases

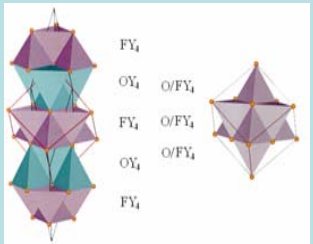












Applications are due August 1, 2006, with decisions in Mid-September and starting dates after December 2006. Eligibility is limited to U.S. Citizens. Starting salary is $55.7K.
For program details, see http://www4.nationalacademies.org/pga/rap.nsf
For information about specific projects or other research in the Ceramics Division see our annual report at ftp://www.ceramics.nist.gov/ann2004.pdf or contact Debra Kaiser, Division Chief, 301-975-6119, debra.kaiser@nist.gov

NIST United States Department of Commerce
National Institute of Standards and Technology